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Product datasheet for VC100568

HCoV-229E N Gene Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-229E N Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N Protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>The Viral ORF clone VC100568 represents NCBI reference of NP_073556 with codon optimized for human cell expression
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACAGTGAAGTGGGCCGACGCTAGCGAGCCACAGCGAGGTAGACAAGGAAGAATTCCCTACAGCC
TGTATTCTCCGCTGCTCGTGGATAGCGAGCAGCCTTGGAAGGTGATTCCCCGCAATCTTGTGCCAATTAA
CAAAAAGGACAAAAATAAGCTTATCGGGTACTGGAATGTACAGAAACGGTTCAGAACACGAAAAGGAAAG
AGAGTGGACTTGTCACCCAAACTCCACTTCTACTACCTTGGAACGGGGCCACACAAAGACGCTAAGTTCC
GAGAGCGCGTCGAAGGCGTCGTCTGGGTGGCCGTAGATGGCGCCAAGACCGAGCCCACAGGCTATGGGGT
AAGAAGGAAGAATTCAGAACCAGAGATCCCTCATTTCAACCAAAAACTGCCGAACGGCGTCACCGTGGTC
GAGGAGCCCGATTCACGCGCCCCCAGTCGCTCTCAGTCTCGGAGCCAAAGCCGCGGCAGGGGGGAGAGCA
AACCACAGAGCAGGAACCCTAGTTCAGACCGCAATCATAACTCACAGGATGATATCATGAAGGCCGTTGC
TGCCGCTTTGAAATCTTTGGGATTTGACAAACCGCAGGAGAAGGACAAGAAGAGTGCTAAGACAGGCACG
CCCAAGCCGTCCCGCAACCAGAGCCCTGCCTCTAGCCAAACTTCCGCCAAGAGCTTGGCTAGGAGCCAGT
CCAGCGAAACAAAGGAGCAGAAACATGAGATGCAGAAACCAAGATGGAAACGACAGCCAAACGATGACGT
GACATCAAACGTTACCCAATGTTTCGGCCCTCGCGACCTGGATCATAATTTCGGCTCCGCAGGAGTCGTG
GCCAACGGTGTAAAAGCAAAAGGTTACCCCCAATTCGCTGAACTCGTTCCTAGTACTGCCGCCATGCTCT
TCGACAGCCATATTGTTTCAAAAGAGAGCGGGAATACAGTGGTCCTGACCTTTACGACAAGAGTCACTGT
CCCTAAGGACCATCCCCACCTGGGGAAATTTCTGGAGGAGTTGAACGCCTTTACCAGGGAGATGCAGCAA
CACCCCCTCCTGAATCCCTCCGCGCTGGAATTTAACCCTAGTCAGACCTCACCTGCCACCGCAGAGCCTG
TGAGGGATGAAGTGTCCATTGAGACTGACATCATCGACGAGGTAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>VC100568 representing NP_073556
Red=Cloning sites Green=Tags

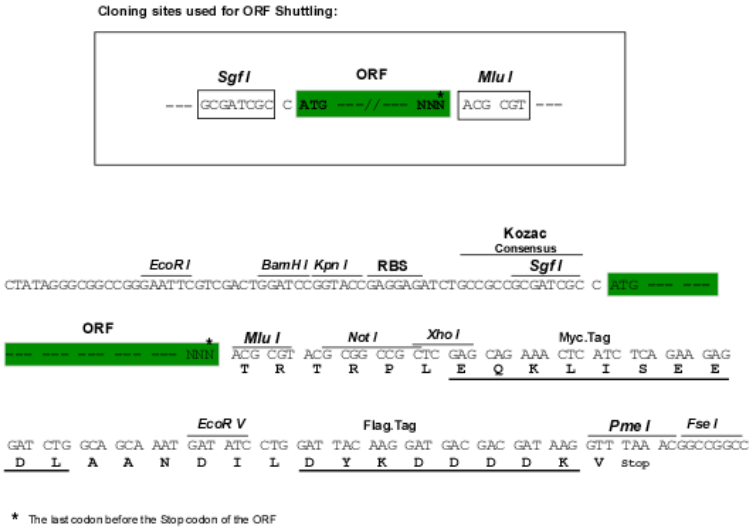
MATVKWADASEPQRGRQGRIPYSLYSPLLVDSEQPWKVIPRNLVPINKKDKNKLIGYWNVQKRFRTRKGK
RVDLSPKLHFYYLGTGPHKDAKFRERVEGVVWVAVDGAKTEPTGYGVRRKNSEPEIPHFNQKLPNGVTVV
EEPDSRAPSRSQSRSQSRGRGESKPQSRNPSSDRNHNSQDDIMKAVAAALKSLGFDKPQEKDKKSAKTGT
PKPSRNQSPASSQTSAKSLARSQSSETKEQKHEMQKPRWKRQPNDDVTSNVTQCFGPRDLDHNFGSAGVV
ANGVKAKGYPQFAELVPSTAAMLFDSHIVSKESGNTVVLTFTTRVTVPKDHPHLGKFLEELNAFTREMQQ
HPLLNPSALEFNPSQTSPATAEPVRDEVSIETDIIDEVN

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2353_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_002645

ORF Size: 1167 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NC_002645.1, NP_073556
RefSeq ORF:	1167 bp
Locus ID:	918763
MW:	43.5 kDa